

Title (en)
Liquid filled type vibration isolator

Title (de)
Flüssigkeitsgefüllter Schwingungsisolator

Title (fr)
Isolateur de vibrations de type rempli de fluide

Publication
EP 1188951 A2 20020320 (EN)

Application
EP 01122269 A 20010918

Priority
• JP 2000282898 A 20000919
• JP 2000293404 A 20000927

Abstract (en)
There is provided a liquid filled type vibration isolator in which damping action for both engine idling vibration and engine shake is carried out with the use of a single orifice. In the liquid filled type vibration isolator comprising a rubber-like insulator (8) for absorbing and isolating vibration transmitted from an oscillating body, a main chamber (6) having a chamber wall formed by a part of the insulator, and hermetically charged therein with liquid, an auxiliary chamber (7) connected to the main chamber through the intermediary of an orifice (5) and having a chamber wall a part of which is formed by a first diaphragm (41), a partition member (3) partitioning between the main chamber and the auxiliary chamber, a working chamber (1) defined and formed with respect to the main chamber by means of a second diaphragm (2), wherein the second diaphragm has a deforming stiffness which is higher than that of the first diaphragm. The liquid in the orifice effects resonant oscillation with a vibration input during engine idling operation. <IMAGE>

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IPC 8 full level
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CPC (source: EP US)
F16F 13/264 (2013.01 - EP US); **F16F 13/268** (2013.01 - EP US)

Citation (applicant)
JP H0477041 A 19920311 - NEC CORP

Cited by
FR2855225A1; FR2857897A1; CN100443226C; EP1614930A1; FR2872879A1; DE10253249A1; US10487905B2; US7040607B2; EP3290739B1

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